



January 15, 2001

*Customer-Focused Solutions*

California Regional Water Quality Control Board  
Los Angeles Region  
320 West 4th Street, Suite 200  
Los Angeles, California 90013

ATTN: MR. JIMMIE WOO

SITE: JALK FEE PROPERTY  
10607 NORWALK BOULEVARD  
SANTA FE SPRINGS, CALIFORNIA  
CASE NUMBER: 97-020

RE: FOURTH QUARTER 2000  
FLUID LEVEL MONITORING AND GROUNDWATER SAMPLING REPORT

Dear Mr. Woo:

Please find enclosed one copy of the Fourth Quarter 2000 Fluid Level Monitoring and Groundwater Sampling Report for the Jalk Fee Property located at 10607 Norwalk Boulevard, Santa Fe Springs, California.

If you have any questions regarding this report, please call me at (949) 341-7449.

Sincerely,

TRC

Jeff Hensel, RG, REA  
Project Manager

Enclosure

23-0134/JalkQMSR03.Doc

c.c. Mr. F. E. Hand, ExxonMobil Corporation



*Customer-Focused Solutions*

**FOURTH QUARTER 2000  
FLUID LEVEL MONITORING AND  
GROUNDWATER SAMPLING REPORT**

January 15, 2001

JALK FEE PROPERTY  
10607 Norwalk Boulevard  
Santa Fe Springs, California

TRC Project No. 23-0134

Prepared For:

EXXONMOBIL CORPORATION  
601 Jefferson, KT 1244  
Houston, Texas 77002

By:

Jeff Hensel, RG, REA  
Project Manager



TRC ALTON GEOSCIENCE  
21 Technology Drive  
Irvine, California 92618

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- B Official Laboratory Report and Chain of Custody Record and Manifests

**Fourth Quarter 2000 Fluid Level Monitoring and Groundwater Sampling Report**  
Jalk Fee Property  
January 15, 2001

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## **1.0 INTRODUCTION**

This report presents the findings of fluid level monitoring and groundwater sampling activities performed in the Fourth Quarter 2000 at the Jalk Fee Property located at 10607 Norwalk Boulevard, Santa Fe Springs, California (Figure 1).

## **2.0 FLUID LEVEL MONITORING AND GROUNDWATER SAMPLING ACTIVITIES**

On November 28, 2000, fluid levels were measured in Monitoring Wells MMW-3, -4 and -5, located as shown on the groundwater elevation contour map (Figure 2). A summary of fluid level monitoring data for this and previous events is presented in Table 1. Plots of depth to water vs. time for this and the previous events, are presented in Graph 1. PCE trend plots are presented in Graphs 2, 3 and 4.

Monitoring wells were purged and sampled in accordance with standard regulatory protocol. General field procedures and monitoring well purging data are provided in Appendix A.

## **3.0 LABORATORY ANALYSIS AND GROUNDWATER DISPOSAL**

Groundwater samples were submitted to a state-certified laboratory and analyzed for volatile organic compounds (VOCs) by EPA Method 8260B, total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 8015M, and ethanol and methanol by EPA Method 8015B. Dissolved-phase concentrations are shown in Figure 3. Laboratory results for this and previous groundwater sampling events are summarized in Table 1. Copies of the official laboratory report and chain of custody record are included in Appendix B.

Groundwater generated during purging and sampling activities was temporarily stored onsite pending transport to an appropriate disposal/recycling facility. Refer to Appendix C for a copy of the non-hazardous waste manifest.

## **4.0 FINDINGS**

- The groundwater elevation ranges from 25.06 (MMW-4) to 27.68 (MMW-3) feet above mean sea level. The groundwater flow direction is generally directed to the southwest as shown on Figure 2.
- No concentrations of TPH-G, BTEX, MTBE, ethanol, or methanol were detected in groundwater samples collected in the Fourth Quarter 2000 (Table 1), with the exception of MTBE in MMW-3 at a concentration of 0.007 milligrams per liter (mg/l). MTBE has only recently been detected in MMW-3 (last two quarters) and will be closely monitored during future sampling events.

**Fourth Quarter 2000 Fluid Level Monitoring and Groundwater Sampling Report**  
Jalk Fee Property  
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- The maximum concentrations of tetrachloroethene (PCE) and trichloroethane (TCE) were detected in Well MMW-5 (1.0 and 0.091 mg/l, respectively).

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The fluid level monitoring and groundwater sampling activities summarized in this report have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.

## FIGURES



1 MILE    3/4    1/2    1/4    0    1 MILE

SCALE 1:24,000



N

SOURCE:

United States Geological Survey  
7.5 Minute Topographic Map:  
Whittier Quadrangle

**ALTON**  
**GEOSCIENCE**  
Irvine, California

#### VICINITY MAP

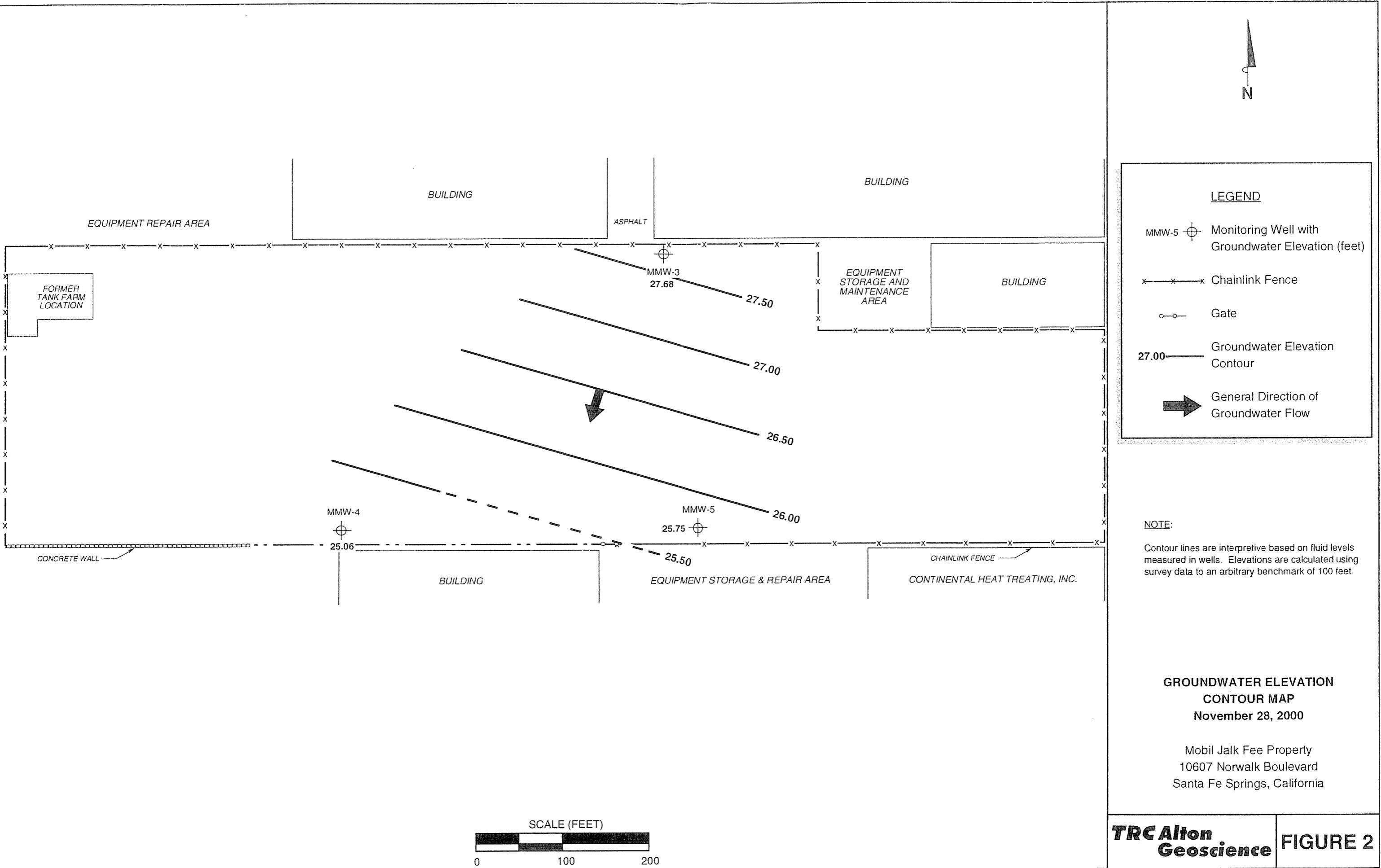
Mobil Jalk Fee Property  
10607 Norwalk Boulevard  
Santa Fe Springs, California



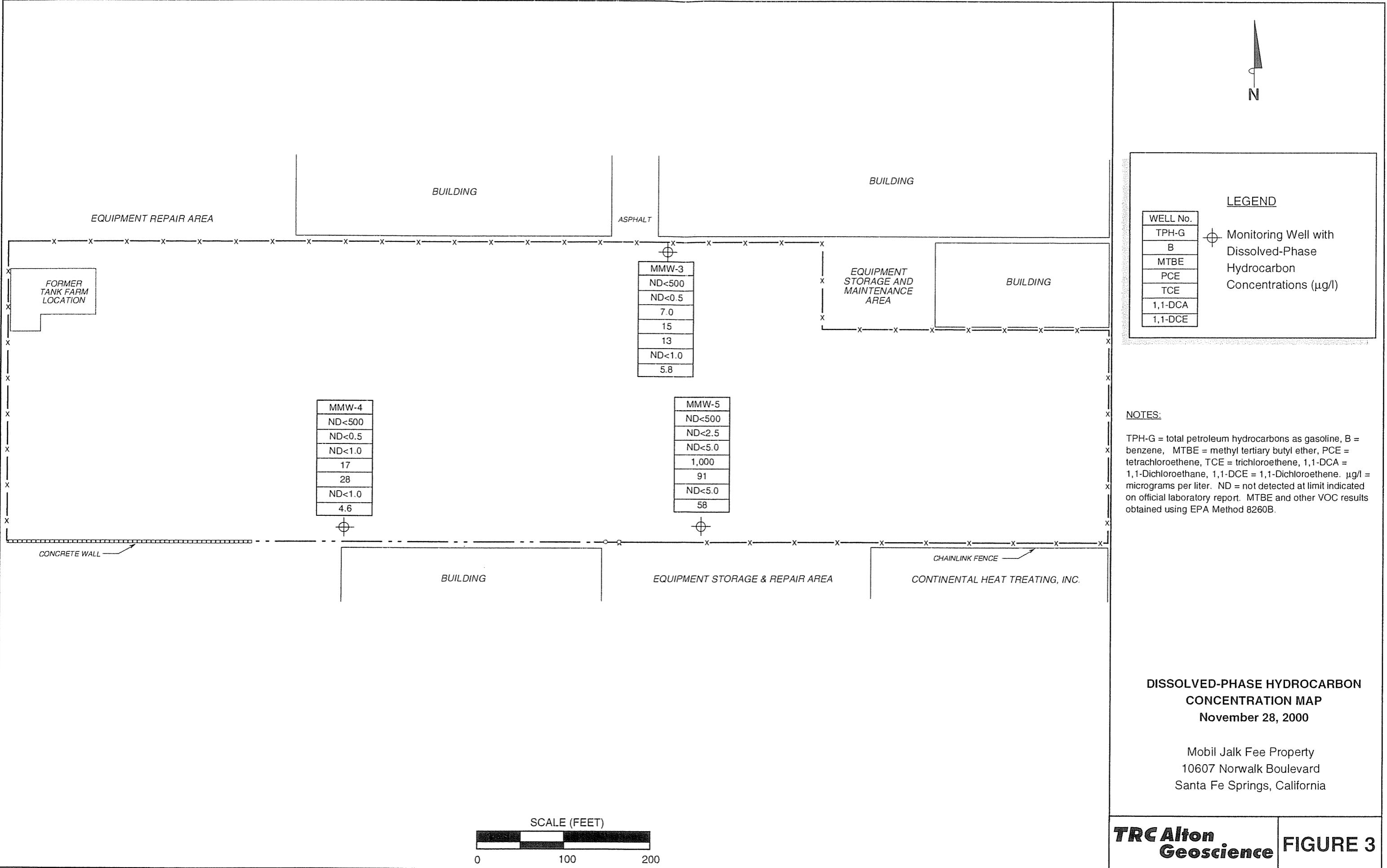
QUADRANGLE  
LOCATION

**FIGURE 1**

N



N



## TABLES

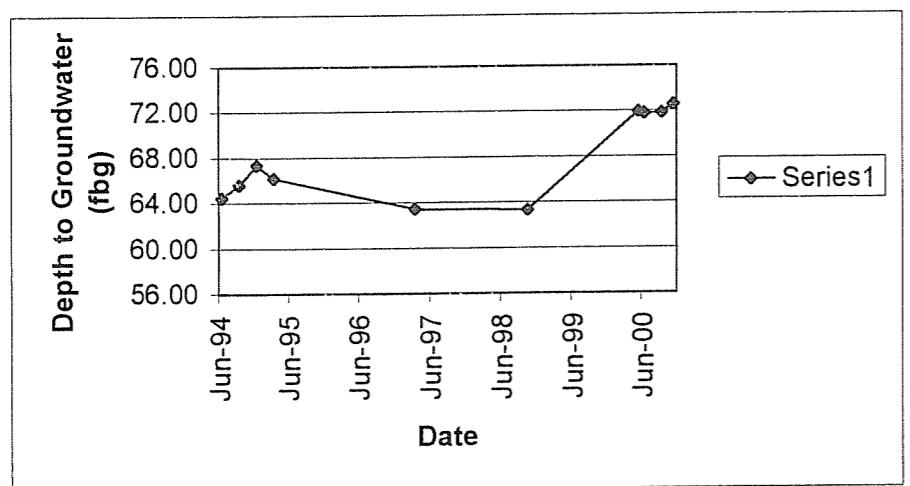
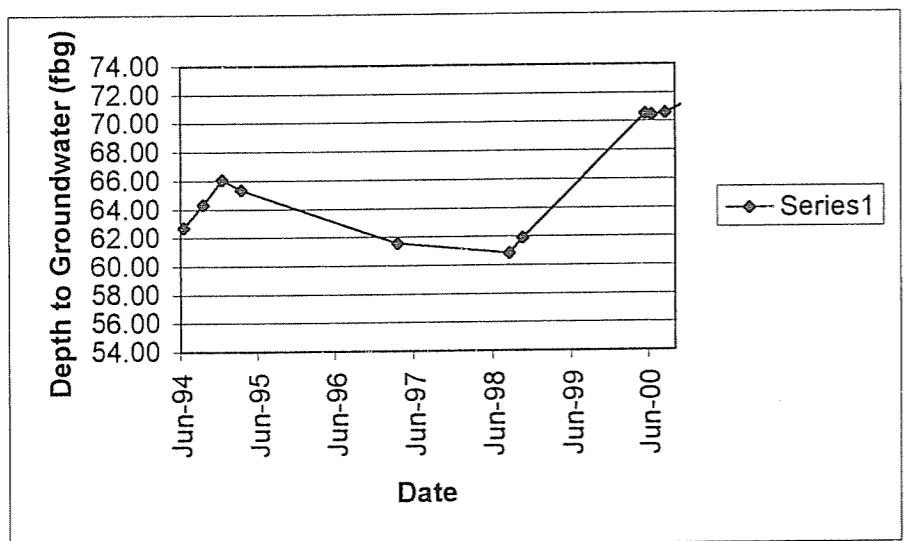
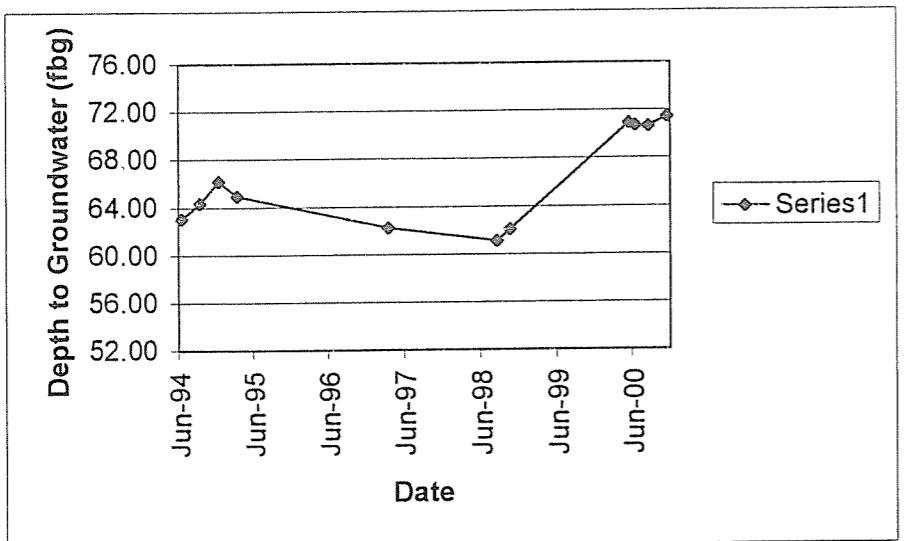
**GROUNDWATER ELEVATION AND LABORATORY ANALYSIS RESULTS**  
 March 1994 through December 2000  
 Jalk Fee Property

Table I

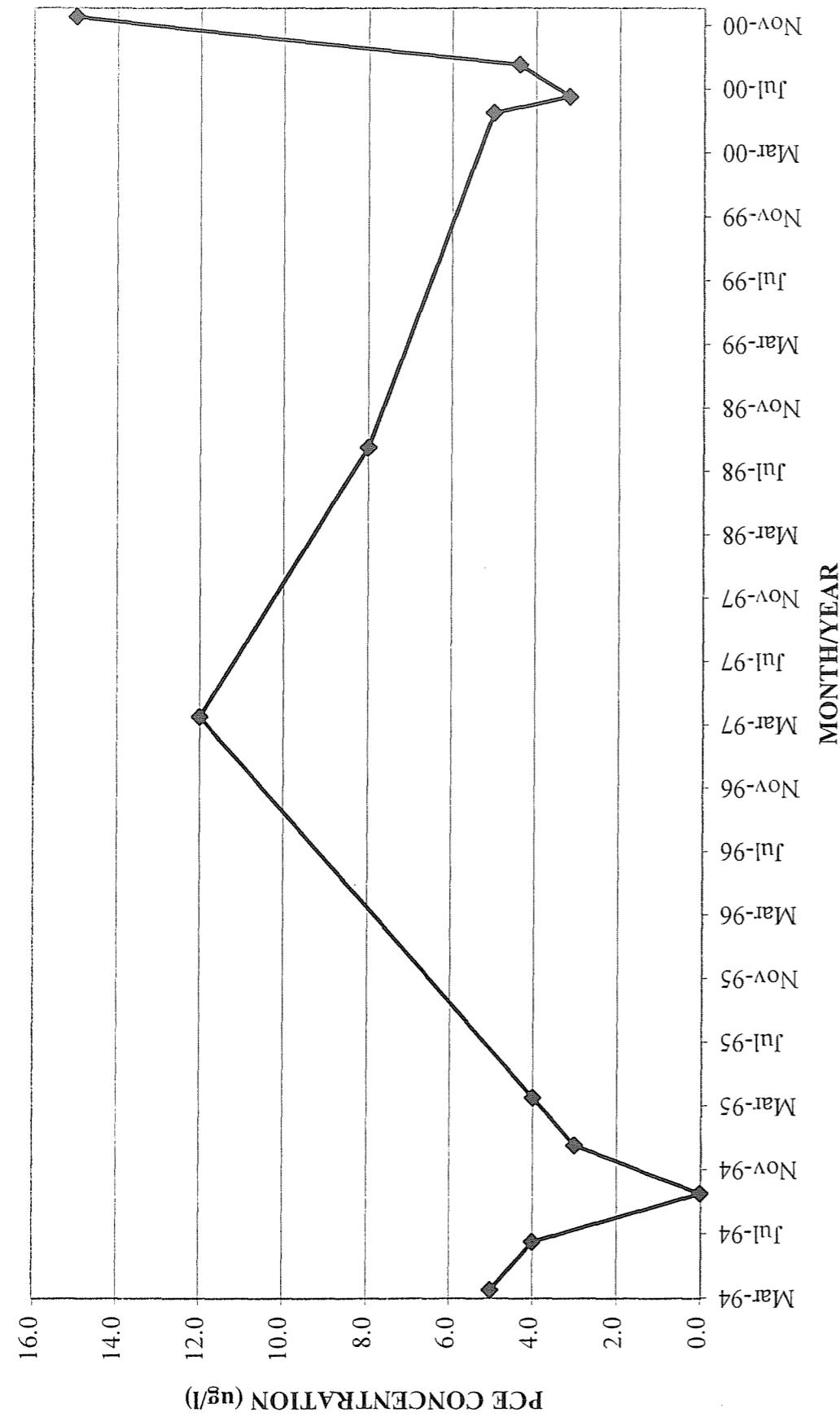
Well ID	Date	Top of Casing Elevation	Depth to Water (ft)	Groundwater Elevation (ft)	TPH-G ( $\mu\text{g/l}$ )	Benzene ( $\mu\text{g/l}$ )	Toluene ( $\mu\text{g/l}$ )	Ethylbenzene ( $\mu\text{g/l}$ )	Total Xylenes ( $\mu\text{g/l}$ )	MTBE ( $\mu\text{g/l}$ )	PCE ( $\mu\text{g/l}$ )	TCE ( $\mu\text{g/l}$ )	1,1-DCA ( $\mu\text{g/l}$ )	1,1-DCE ( $\mu\text{g/l}$ )	c-1,2-DCE ( $\mu\text{g/l}$ )
MMW-3	03/15/94	134.26	64.92	69.34	ND	4	13	26	101	--	5	25	2	10	--
	06/22/94	134.26	63.08	71.18	ND	ND	ND	ND	ND	--	4	24	2	8	--
	09/16/94	134.26	64.34	69.92	ND	ND	3	ND	6	--	ND	12	3	3	--
	12/16/94	134.26	66.21	68.05	ND	ND	8	2	8	--	3	17	2	5	--
	03/08/95	134.26	64.95	69.31	ND	28	28	2	18	--	4	20	2	2	--
	03/26/97	99.17	62.25	36.92	ND	ND	ND	ND	ND	--	12	23	2	7	--
	08/03/98	99.17	61.12	38.05	ND	ND	ND	ND	ND	--	8	21	2	6	--
	10/22/98	99.17	62.07	37.1	--	--	--	--	--	--	--	--	--	--	--
	05/02/00	99.17	70.94	28.23	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/06/00	99.17	70.69	28.48	ND	ND	ND	ND	ND	--	ND	5.0	16	1.8	9.2
MMW-4	08/31/00	99.17	70.67	28.5	ND	ND	ND	ND	ND	ND	ND	3.2	12	1.4	5.6
	11/28/00	99.17	71.49	27.68	ND	ND	ND	ND	ND	ND	ND	4.4	15	1.7	6.5
	03/15/94	131.4	64.36	67.04	ND	ND	4	10	38	--	ND	15.0	13	ND < 1.0	5.8
	06/22/94	131.4	62.73	68.67	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	--
	09/16/94	131.4	64.32	67.08	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	--
	12/16/94	131.4	66.10	65.3	ND	ND	7	3	9	--	1	6	ND	ND	--
	03/08/95	131.4	65.38	66.02	ND	2	2	ND	1	--	5	9	ND	ND	--
	03/26/97	96.34	61.57	34.77	ND	ND	ND	ND	ND	--	4.2	4	ND	ND	--
	08/03/98	96.34	60.86	35.48	ND	ND	ND	ND	ND	--	2	4	ND	ND	--
	10/22/98	96.34	61.93	34.41	--	--	--	--	--	--	--	--	--	--	--
MMW-5	05/02/00	96.34	70.57	25.77	ND	ND	ND	ND	ND	ND	ND	4.4	12	1.7	1.8
	06/06/00	96.34	70.46	25.88	ND	ND	ND	ND	ND	ND	ND	5.6	15	2.1	2.5
	08/31/00	96.34	70.58	25.76	ND	ND	ND	ND	ND	ND	ND	6.7	17	1.9	2.0
	11/28/00	96.34	71.28	25.06	ND	ND	ND	ND	ND	ND	ND	17	28	ND < 1.0	4.6
	03/15/94	133.38	66.26	67.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/22/94	133.38	64.45	68.93	ND	ND	ND	ND	ND	ND	ND	330	60	ND	5
	09/16/94	133.38	65.61	67.77	ND	ND	ND	ND	ND	ND	ND	930	100	ND	ND
	12/16/94	133.38	67.34	66.04	ND	ND	1	2	1	--	ND	830	82	ND	--
	03/08/95	133.38	66.16	67.22	ND	ND	ND	ND	ND	--	1,400	1,400	ND	5	--
	03/26/97	98.33	63.45	34.88	400	ND	ND	ND	ND	ND	--	2,200	180	ND	--
MMW-6	10/22/98	98.33	63.34	34.99	ND	0.40	ND	0.60	ND	--	1,100	88	ND	ND	--
	11/20/98	98.33	63.59	34.74	450	3	3.00	ND	1.00	ND	--	660	91	ND	--
	05/02/00	98.33	71.95	26.38	ND	ND	ND	ND	ND	ND	--	660	90	3.4	--
	06/06/00	98.33	71.79	26.54	ND	ND	ND	ND	ND	ND	--	100	24	ND	19
	09/15/00	98.33	71.86	26.47	136	ND < 2.5	ND < 5.0	ND < 5.0	ND < 10	ND < 5.0	--	390	52	3.1	41
	11/28/00	98.33	72.58	25.75	ND < 500	ND < 2.5	ND < 5.0	ND < 5.0	ND < 10	ND < 5.0	--	1,000	91	ND < 5.0	58
	03/15/94	133.38	66.26	67.12	ND	ND	ND	ND	ND	ND	ND	330	60	ND	5
	06/22/94	133.38	64.45	68.93	ND	ND	ND	ND	ND	ND	ND	930	100	ND	ND
	09/16/94	133.38	65.61	67.77	ND	ND	ND	ND	ND	ND	ND	830	82	ND	--
	12/16/94	133.38	67.34	66.04	ND	ND	1	2	1	--	ND	1,400	1,400	ND	5
MMW-7	03/08/95	133.38	66.16	67.22	ND	ND	ND	ND	ND	ND	ND	2,200	180	ND	--
	03/26/97	98.33	63.45	34.88	400	ND	ND	ND	ND	ND	--	1,100	88	ND	--
	08/03/98	98.33	63.34	34.99	ND	0.40	ND	0.60	ND	--	ND	660	91	ND	--
	10/22/98	98.33	63.59	34.74	450	3	3.00	ND	1.00	ND	--	660	90	3.4	--
	11/20/98	98.33	71.95	26.38	ND	ND	ND	ND	ND	ND	--	100	24	ND	19
	05/02/00	98.33	71.79	26.54	ND	ND	ND	ND	ND	ND	--	390	52	3.1	41
	06/06/00	98.33	71.86	26.47	136	ND < 2.5	ND < 5.0	ND < 5.0	ND < 10	ND < 5.0	--	1,000	91	ND < 5.0	58
	09/15/00	98.33	71.86	26.47	136	ND < 2.5	ND < 5.0	ND < 5.0	ND < 10	ND < 5.0	--	390	52	3.1	41
	11/28/00	98.33	72.58	25.75	ND < 500	ND < 2.5	ND < 5.0	ND < 5.0	ND < 10	ND < 5.0	--	1,000	91	ND < 5.0	58
	03/15/94	133.38	66.26	67.12	ND	ND	ND	ND	ND	ND	ND	330	60	ND	5
MMW-8	06/22/94	133.38	64.45	68.93	ND	ND	ND	ND	ND	ND	ND	930	100	ND	--
	09/16/94	133.38	65.61	67.77	ND	ND	ND	ND	ND	ND	ND	830	82	ND	--
	12/16/94	133.38	67.34	66.04	ND	ND	1	2	1	--	ND	1,400	1,400		

# GRAPHS

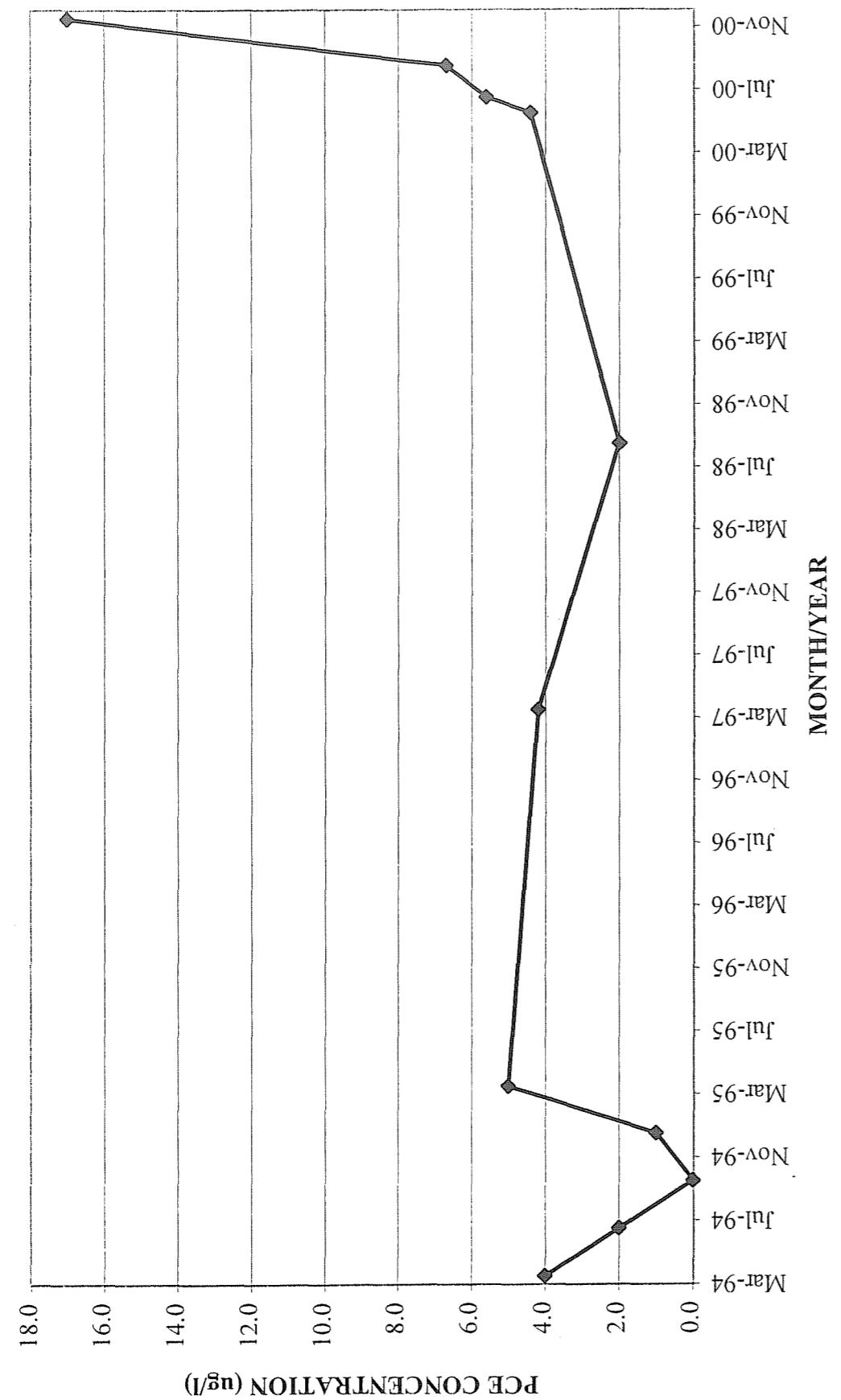
**Graph 1**  
**Depth to Groundwater vs. Time**  
**Jalk Fee Property**



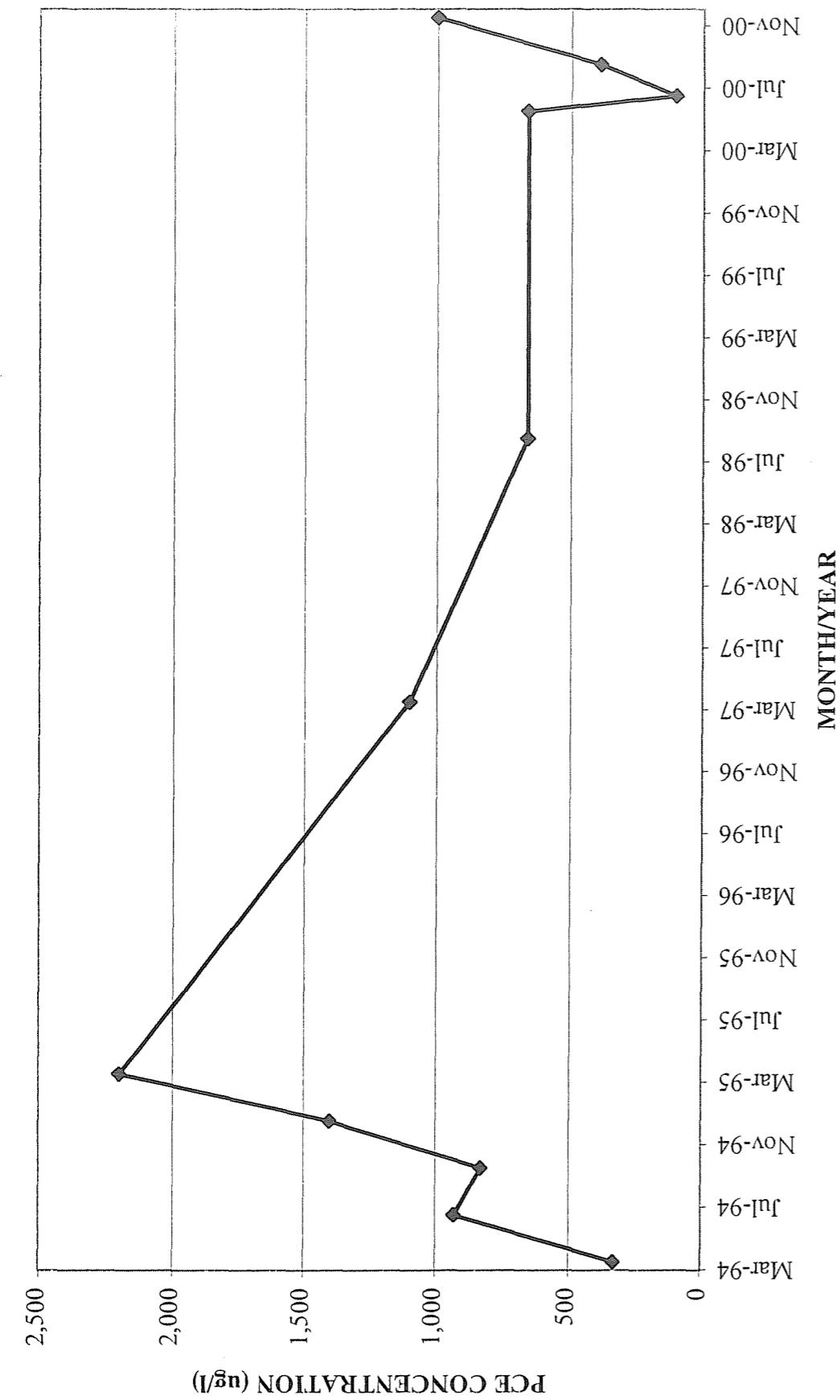
PCE vs. TIME - MMW-3



PCE vs. TIME - MMW-4



PCE vs. TIME - MMW-5



**Fourth Quarter 2000 Fluid Level Monitoring and Groundwater Sampling Report**  
Jalk Fee Property  
January 15, 2001

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**APPENDIX A**

**GENERAL FIELD PROCEDURES AND  
MONITORING WELL PURGING DATA**

## **GENERAL FIELD PROCEDURES**

General field procedures used during fluid level monitoring and groundwater sampling activities are described below.

### **FLUID LEVEL MONITORING**

Fluid levels are monitored in the wells using an electronic interface probe with conductance sensors. The depth to liquid-phase hydrocarbons (LPH) and water is measured relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city bench mark.

### **GROUNDWATER SAMPLING**

Groundwater monitoring wells are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no LPH are purged of groundwater prior to sampling so that fluids collected are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when the specified number of casing volumes of fluid have been removed and the three (3) parameters, pH, Conductivity, and Temperature have stabilized (See groundwater Sampling Field Notes for volume removed). Samples for laboratory analysis are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purge water is either (1) pumped directly into a licensed vacuum truck; or (2) treated and disposed onsite using the TRC Alton Geoscience Mobile Groundwater Treatment Trailer; or (3) temporarily stored in labeled drums prior to transport to a treatment/recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

With respect to wells that have been designated as "nonpurge", the wells will be sampled without purging. Monitoring wells that contain measurable LPH are typically purged. The purged water and LPH removed from wells will be either pumped directly into a licensed vacuum truck and removed from the site, or temporarily stored in labeled drums pending transport to an approved treatment/recycling facility.

### **GROUNDWATER SAMPLE COLLECTION**

Groundwater samples are collected by lowering a 1 5-inch-diameter, bottom-fill, disposable polyethylene bailer to just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials, then transported to a state-certified laboratory for analysis. Samples remain in a cooler packed with ice until returned to TRC Alton's office where they are kept in a dedicated sample refrigerator pending shipment to an analytical laboratory.

Chain of custody protocol is followed for all groundwater samples selected for laboratory analysis. The chain of custody form(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis. When a freight or overnight carrier ships samples, the carrier is noted on the chain of custody form.

### **DECONTAMINATION**

Latex gloves are worn at all times during monitoring, sampling, and purging activities. Gloves are changed between each well. All monitoring, sampling, and purging equipment that could contact well fluids is either dedicated to a particular well or cleaned prior to each use in a Liqui-nox solution followed by two rinses: the first rinse in tap water and the final rinse in deionized water.

## FIELD MONITORING DATA SHEET



Technician: Bill R.

Job #/Task #: 23-0150-70

Date: 11-28-00

Site # Jak - Fre

Project Manager John Tromper

Page 1 of 1

FIELD DATA COMPLETE

QA/QC

coa

WELL BOX CONDITION SHEETS

**WTT CERTIFICATE**

## MANIFEST

## DRUM INVENTORY

## TRAFFIC CONTROL

# GROUNDWATER SAMPLING FIELD NOTES

Site: Waltree

Project No. 0134  
230570

Sampled By: Bill Pej

Well No. MW-5

Depth to Water (feet) 71.58

Purge Method Sub Sump

Depth to Product (feet) 0

Total Depth (feet) 106.00

LPH & Water Recovered (gallons) 0

Water Column (feet) 33.72

Casing Diameter (inches) 4"

80% Recharge Depth (feet) 79.26 1 Well Volume (gallons) 22

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
12:19		22	1.76	77.1	6.25	
		44	1.67	77.5	6.95	
12:36		66	1.55	77.9	6.69	

Static at Time Sampled	Total Purged	Time Sampled
71.58	66	1:49

Comments:

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
12:43		14	1.65	76.7	7.00	
		28	1.73	75.4	6.96	
12:54		42	1.77	74.5	6.91	

Static at Time Sampled	Total Purged	Time Sampled
71.43	42	1:40

Comments:

Well No.	Purge Method:
Depth to Water (feet)	Depth to Product (feet)
Total Depth (feet)	LPH & Water Recovered (gallons)
Water Column (feet)	Casing Diameter (inches)
80% Recharge Depth (feet)	1 Well Volume (gallons)

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
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Static at Time Sampled	Total Purged	Time Sampled
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Comments:

Well No. MW-7

Purge Method Sub Sump

Depth to Water (feet) 71.28

Depth to Product (feet) 0

Total Depth (feet) 105.20

LPH & Water Recovered (gallons) 0

Water Column (feet) 33.92

Casing Diameter (inches) 4"

80% Recharge Depth (feet) 78.06 1 Well Volume (gallons) 22

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
101		22	1.59	73.6	7.02	
		44	1.56	71.9	6.97	
		66	1.55	75.2	7.16	

Static at Time Sampled	Total Purged	Time Sampled
71.27	66	1:31

Comments:

Well No.	Purge Method:
Depth to Water (feet)	Depth to Product (feet)
Total Depth (feet)	LPH & Water Recovered (gallons)
Water Column (feet)	Casing Diameter (inches)
80% Recharge Depth (feet)	1 Well Volume (gallons)

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
------------	-----------	-----------------------	-------------------------	-----------------------	---------------------	----

Static at Time Sampled	Total Purged	Time Sampled
------------------------	--------------	--------------

Comments:

Well No.	Purge Method:
Depth to Water (feet)	Depth to Product (feet)
Total Depth (feet)	LPH & Water Recovered (gallons)
Water Column (feet)	Casing Diameter (inches)
80% Recharge Depth (feet)	1 Well Volume (gallons)

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
------------	-----------	-----------------------	-------------------------	-----------------------	---------------------	----

Static at Time Sampled	Total Purged	Time Sampled
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Comments:

**Fourth Quarter 2000 Fluid Level Monitoring and Groundwater Sampling Report**

Jalk Fee Property

January 15, 2001

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**APPENDIX B**

**OFFICIAL LABORATORY REPORT AND  
CHAIN OF CUSTODY RECORD AND MANIFEST**



December 06, 2000

John Trompeter  
TRC-Alton Geoscience  
21 Technology Drive  
Irvine, CA 92618

Subject: Calscience Work Order Number: 00-11-1170  
Client Reference: Jalk Fee

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/29/00, and analyzed as requested on the attached chain-of-custody record.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

*Note that the Sample Receipt Form and Chain-of-Custody Record are integral parts of this report.*

If you have any questions regarding this report, require sampling supplies or field services, or information about our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

A handwritten signature in black ink, appearing to read "MJ Crisostomo".

Calscience Environmental  
Laboratories, Inc.  
Michael J. Crisostomo  
Project Manager

A handwritten signature in black ink, appearing to read "WH Christensen".

William H. Christensen  
Quality Assurance Manager

**ANALYTICAL REPORT**

TRC-Alton Geoscience  
21 Technology Drive  
Irvine, CA 92618

Date Received: 11/29/00  
Work Order No: 00-11-1170  
Preparation: EPA 5030B  
Method: EPA 8015M

Project: Jalk Fee

Page 1 of 2

Client Sample Number:	Lab Sample Number:	Matrix:	Date Collected:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-5	00-11-1170-1	Aqueous	11/28/00	N/A	11/30/00	00113001sa

Parameter	Result	RL	DF	Qual	Units
TPH for Gasoline	ND	500	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	79	57-128			

MW-4	00-11-1170-2	Aqueous	11/28/00	N/A	12/01/00	00113001sa
Parameter	Result	RL	DF	Qual	Units	
TPH for Gasoline	ND	500	1		ug/L	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>		
1,4-Bromofluorobenzene	87	57-128				

MW-3	00-11-1170-3	Aqueous	11/28/00	N/A	11/30/00	00112902sa
Parameter	Result	RL	DF	Qual	Units	
TPH for Gasoline	ND	500	1		ug/L	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>		
1,4-Bromofluorobenzene	95	57-128				

Method Blank	098-03-006-799	Aqueous	N/A	N/A	11/30/00	00112902sa
Parameter	Result	RL	DF	Qual	Units	
TPH for Gasoline	ND	500	1		ug/L	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>		
1,4-Bromofluorobenzene	108	57-128				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

**ANALYTICAL REPORT**

TRC-Alton Geoscience  
21 Technology Drive  
Irvine, CA 92618

Date Received: 11/29/00  
Work Order No: 00-11-1170  
Preparation: EPA 5030B  
Method: EPA 8015M

Project: Jalk Fee

Page 2 of 2

Client Sample Number:	Lab Sample Number:	Matrix:	Date Collected:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	098-03-006-802	Aqueous	N/A	N/A	11/30/00	00113001sa

Parameter	Result	RL	DF	Qual	Units
TPH for Gasoline	ND	500	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	84	57-128	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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**ANALYTICAL REPORT**

TRC-Alton Geoscience  
 21 Technology Drive  
 Irvine, CA 92618

Date Received: 11/29/00  
 Work Order No: 00-11-1170  
 Preparation: N/A  
 Method: EPA 8260B

Project: Jalk Fee

Page 1 of 4

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-5	00-11-1170-1	11/28/00	Aqueous	N/A	12/03/00	001202AW

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	50	5	ug/L	1,1-Dichloropropene	ND	5.0	5	ug/L		
Benzene	ND	2.5	5	ug/L	c-1,3-Dichloropropene	ND	2.5	5	ug/L		
Bromobenzene	ND	5.0	5	ug/L	t-1,3-Dichloropropene	ND	2.5	5	ug/L		
Bromochloromethane	ND	5.0	5	ug/L	Ethylbenzene	ND	5.0	5	ug/L		
Bromodichloromethane	ND	5.0	5	ug/L	2-Hexanone	ND	50	5	ug/L		
Bromoform	ND	5.0	5	ug/L	Isopropylbenzene	ND	5.0	5	ug/L		
Bromomethane	ND	5.0	5	ug/L	p-Isopropyltoluene	ND	5.0	5	ug/L		
2-Butanone	ND	50	5	ug/L	Methylene Chloride	ND	50	5	ug/L		
n-Butylbenzene	ND	5.0	5	ug/L	4-Methyl-2-Pentanone	ND	50	5	ug/L		
sec-Butylbenzene	ND	5.0	5	ug/L	Naphthalene	ND	50	5	ug/L		
tert-Butylbenzene	ND	5.0	5	ug/L	n-Propylbenzene	ND	5.0	5	ug/L		
Carbon Disulfide	ND	50	5	ug/L	Styrene	ND	5.0	5	ug/L		
Carbon Tetrachloride	ND	2.5	5	ug/L	1,1,1,2-Tetrachloroethane	ND	5.0	5	ug/L		
Chlorobenzene	ND	5.0	5	ug/L	1,1,2,2-Tetrachloroethane	ND	5.0	5	ug/L		
Chloroethane	ND	5.0	5	ug/L	Tetrachloroethene	1000	25	25	D	ug/L	
Chloroform	ND	5.0	5	ug/L	Toluene	ND	5.0	5	ug/L		
Chloromethane	ND	5.0	5	ug/L	1,2,3-Trichlorobenzene	ND	5.0	5	ug/L		
2-Chlorotoluene	ND	5.0	5	ug/L	1,2,4-Trichlorobenzene	ND	5.0	5	ug/L		
4-Chlorotoluene	ND	5.0	5	ug/L	1,1,1-Trichloroethane	ND	5.0	5	ug/L		
Dibromochloromethane	ND	5.0	5	ug/L	1,1,2-Trichloroethane	ND	5.0	5	ug/L		
1,2-Dibromo-3-Chloropropane	ND	25	5	ug/L	Trichloroethene	91	5	5	ug/L		
1,2-Dibromoethane	ND	5.0	5	ug/L	Trichlorofluoromethane	ND	50	5	ug/L		
Dibromomethane	ND	5.0	5	ug/L	1,2,3-Trichloropropane	ND	5.0	5	ug/L		
1,2-Dichlorobenzene	ND	5.0	5	ug/L	1,2,4-Trimethylbenzene	ND	5.0	5	ug/L		
1,3-Dichlorobenzene	ND	5.0	5	ug/L	1,3,5-Trimethylbenzene	ND	5.0	5	ug/L		
1,4-Dichlorobenzene	ND	5.0	5	ug/L	Vinyl Acetate	ND	50	5	ug/L		
Dichlorodifluoromethane	ND	5.0	5	ug/L	Vinyl Chloride	ND	2.5	5	ug/L		
1,1-Dichloroethane	ND	5.0	5	ug/L	p/m-Xylene	ND	5.0	5	ug/L		
1,2-Dichloroethane	ND	2.5	5	ug/L	o-Xylene	ND	5.0	5	ug/L		
1,1-Dichloroethene	58	5	5	ug/L	Methyl-tert-Butyl Ether	ND	5.0	5	ug/L		
c-1,2-Dichloroethene	9.3	5.0	5	ug/L	Tert-Butyl alcohol (TBA)	ND	250	5	ug/L		
t-1,2-Dichloroethene	ND	5.0	5	ug/L	Diisopropyl ether (DIPE)	ND	10	5	ug/L		
1,2-Dichloropropane	ND	5.0	5	ug/L	Ethyl t-butyl ether (ETBE)	ND	10	5	ug/L		
1,3-Dichloropropane	ND	5.0	5	ug/L	Tert-Amyl methyl ether	ND	10	5	ug/L		
2,2-Dichloropropane	ND	5.0	5	ug/L							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	86-118		Toluene-d8	98	88-110	
1,4-Bromofluorobenzene	99	86-115					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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**ANALYTICAL REPORT**

TRC-Alton Geoscience  
 21 Technology Drive  
 Irvine, CA 92618

Date Received: 11/29/00  
 Work Order No: 00-11-1170  
 Preparation: N/A  
 Method: EPA 8260B

Project: Jalk Fee

Page 2 of 4

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-4	00-11-1170-2	11/28/00	Aqueous	N/A	12/03/00	001202AW

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	10	1	ug/L	1,1-Dichloropropene	ND	1.0	1	ug/L		
Benzene	ND	0.50	1	ug/L	c-1,3-Dichloropropene	ND	0.50	1	ug/L		
Bromobenzene	ND	1.0	1	ug/L	t-1,3-Dichloropropene	ND	0.50	1	ug/L		
Bromoform	ND	1.0	1	ug/L	Ethylbenzene	ND	1.0	1	ug/L		
Bromochloromethane	ND	1.0	1	ug/L	2-Hexanone	ND	10	1	ug/L		
Bromodichloromethane	ND	1.0	1	ug/L	Isopropylbenzene	ND	1.0	1	ug/L		
Bromoform	ND	1.0	1	ug/L	p-Isopropyltoluene	ND	1.0	1	ug/L		
Bromomethane	ND	1.0	1	ug/L	Methylene Chloride	ND	10	1	ug/L		
2-Butanone	ND	10	1	ug/L	4-Methyl-2-Pentanone	ND	10	1	ug/L		
n-Butylbenzene	ND	1.0	1	ug/L	Naphthalene	ND	10	1	ug/L		
sec-Butylbenzene	ND	1.0	1	ug/L	n-Propylbenzene	ND	1.0	1	ug/L		
tert-Butylbenzene	ND	1.0	1	ug/L	Styrene	ND	1.0	1	ug/L		
Carbon Disulfide	ND	10	1	ug/L	1,1,1,2-Tetrachloroethane	ND	1.0	1	ug/L		
Carbon Tetrachloride	ND	0.50	1	ug/L	1,1,2,2-Tetrachloroethane	ND	1.0	1	ug/L		
Chlorobenzene	ND	1.0	1	ug/L	Tetrachloroethene	17	1	1	ug/L		
Chloroethane	ND	1.0	1	ug/L	Toluene	ND	1.0	1	ug/L		
Chloroform	ND	1.0	1	ug/L	1,2,3-Trichlorobenzene	ND	1.0	1	ug/L		
Chloromethane	ND	1.0	1	ug/L	1,2,4-Trichlorobenzene	ND	1.0	1	ug/L		
2-Chlorotoluene	ND	1.0	1	ug/L	1,1,1-Trichloroethane	ND	1.0	1	ug/L		
4-Chlorotoluene	ND	1.0	1	ug/L	1,1,2-Trichloroethane	ND	1.0	1	ug/L		
Dibromochloromethane	ND	1.0	1	ug/L	Trichloroethene	28	1	1	ug/L		
1,2-Dibromo-3-Chloropropane	ND	5.0	1	ug/L	Trichlorofluoromethane	ND	10	1	ug/L		
1,2-Dibromoethane	ND	1.0	1	ug/L	1,2,3-Trichloropropane	ND	1.0	1	ug/L		
Dibromomethane	ND	1.0	1	ug/L	1,2,4-Trimethylbenzene	ND	1.0	1	ug/L		
1,2-Dichlorobenzene	ND	1.0	1	ug/L	1,3,5-Trimethylbenzene	ND	1.0	1	ug/L		
1,3-Dichlorobenzene	ND	1.0	1	ug/L	Vinyl Acetate	ND	10	1	ug/L		
1,4-Dichlorobenzene	ND	1.0	1	ug/L	Vinyl Chloride	ND	0.50	1	ug/L		
Dichlorodifluoromethane	ND	1.0	1	ug/L	p/m-Xylene	ND	1.0	1	ug/L		
1,1-Dichloroethane	ND	1.0	1	ug/L	o-Xylene	ND	1.0	1	ug/L		
1,2-Dichloroethane	ND	0.50	1	ug/L	Methyl-tert-Butyl Ether	ND	1.0	1	ug/L		
1,1-Dichloroethene	4.6	1.0	1	ug/L	Tert-Butyl alcohol (TBA)	ND	50	1	ug/L		
c-1,2-Dichloroethene	3.4	1.0	1	ug/L	Diisopropyl ether (Dipe)	ND	2.0	1	ug/L		
t-1,2-Dichloroethene	ND	1.0	1	ug/L	Ethyl t-butyl ether (ETBE)	ND	2.0	1	ug/L		
1,2-Dichloropropane	ND	1.0	1	ug/L	Tert-Amyl methyl ether	ND	2.0	1	ug/L		
1,3-Dichloropropane	ND	1.0	1	ug/L							
2,2-Dichloropropane	ND	1.0	1	ug/L							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	86-118		Toluene-d8	97	88-110	
1,4-Bromofluorobenzene	97	86-115					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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## ANALYTICAL REPORT

TRC-Alton Geoscience  
 21 Technology Drive  
 Irvine, CA 92618

Date Received: 11/29/00  
 Work Order No: 00-11-1170  
 Preparation: N/A  
 Method: EPA 8260B

Project: Jalk Fee

Page 3 of 4

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
MW-3	00-11-1170-3	11/28/00	Aqueous	N/A	12/03/00	001202AW

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	10	1	ug/L	1,1-Dichloropropene	ND	1.0	1	ug/L		
Benzene	ND	0.50	1	ug/L	c-1,3-Dichloropropene	ND	0.50	1	ug/L		
Bromobenzene	ND	1.0	1	ug/L	t-1,3-Dichloropropene	ND	0.50	1	ug/L		
Bromoform	ND	1.0	1	ug/L	Ethylbenzene	ND	1.0	1	ug/L		
Bromochloromethane	ND	1.0	1	ug/L	2-Hexanone	ND	10	1	ug/L		
Bromodichloromethane	ND	1.0	1	ug/L	Isopropylbenzene	ND	1.0	1	ug/L		
Bromoform	ND	1.0	1	ug/L	p-Isopropyltoluene	ND	1.0	1	ug/L		
Bromomethane	ND	1.0	1	ug/L	Methylene Chloride	ND	10	1	ug/L		
2-Butanone	ND	10	1	ug/L	4-Methyl-2-Pentanone	ND	10	1	ug/L		
n-Butylbenzene	ND	1.0	1	ug/L	Naphthalene	ND	10	1	ug/L		
sec-Butylbenzene	ND	1.0	1	ug/L	n-Propylbenzene	ND	1.0	1	ug/L		
tert-Butylbenzene	ND	1.0	1	ug/L	Styrene	ND	1.0	1	ug/L		
Carbon Disulfide	ND	10	1	ug/L	1,1,1,2-Tetrachloroethane	ND	1.0	1	ug/L		
Carbon Tetrachloride	ND	0.50	1	ug/L	1,1,2,2-Tetrachloroethane	ND	1.0	1	ug/L		
Chlorobenzene	ND	1.0	1	ug/L	Tetrachloroethene	15	1	1	ug/L		
Chloroethane	ND	1.0	1	ug/L	Toluene	ND	1.0	1	ug/L		
Chloroform	ND	1.0	1	ug/L	1,2,3-Trichlorobenzene	ND	1.0	1	ug/L		
Chloromethane	ND	1.0	1	ug/L	1,2,4-Trichlorobenzene	ND	1.0	1	ug/L		
2-Chlorotoluene	ND	1.0	1	ug/L	1,1,1-Trichloroethane	ND	1.0	1	ug/L		
4-Chlorotoluene	ND	1.0	1	ug/L	1,1,2-Trichloroethane	ND	1.0	1	ug/L		
Dibromochloromethane	ND	1.0	1	ug/L	Trichloroethene	13	1	1	ug/L		
1,2-Dibromo-3-Chloropropane	ND	5.0	1	ug/L	Trichlorofluoromethane	ND	10	1	ug/L		
1,2-Dibromoethane	ND	1.0	1	ug/L	1,2,3-Trichloropropane	ND	1.0	1	ug/L		
Dibromomethane	ND	1.0	1	ug/L	1,2,4-Trimethylbenzene	ND	1.0	1	ug/L		
1,2-Dichlorobenzene	ND	1.0	1	ug/L	1,3,5-Trimethylbenzene	ND	1.0	1	ug/L		
1,3-Dichlorobenzene	ND	1.0	1	ug/L	Vinyl Acetate	ND	10	1	ug/L		
1,4-Dichlorobenzene	ND	1.0	1	ug/L	Vinyl Chloride	ND	0.50	1	ug/L		
Dichlorodifluoromethane	ND	1.0	1	ug/L	p/m-Xylene	ND	1.0	1	ug/L		
1,1-Dichloroethane	ND	1.0	1	ug/L	o-Xylene	ND	1.0	1	ug/L		
1,2-Dichloroethane	ND	0.50	1	ug/L	Methyl-tert-Butyl Ether	7.0	1.0	1	ug/L		
1,1-Dichloroethene	5.8	1.0	1	ug/L	Tert-Butyl alcohol (TBA)	ND	50	1	ug/L		
c-1,2-Dichloroethene	ND	1.0	1	ug/L	Diisopropyl ether (DPE)	ND	2.0	1	ug/L		
t-1,2-Dichloroethene	ND	1.0	1	ug/L	Ethyl t-butyl ether (ETBE)	ND	2.0	1	ug/L		
1,2-Dichloropropane	ND	1.0	1	ug/L	Tert-Amyl methyl ether	ND	2.0	1	ug/L		
1,3-Dichloropropane	ND	1.0	1	ug/L							
2,2-Dichloropropane	ND	1.0	1	ug/L							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	86-118		Toluene-d8	101	88-110	
1,4-Bromofluorobenzene	96	86-115					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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**ANALYTICAL REPORT**

TRC-Alton Geoscience  
 21 Technology Drive  
 Irvine, CA 92618

Date Received: 11/29/00  
 Work Order No: 00-11-1170  
 Preparation: N/A  
 Method: EPA 8260B

Project: Jalk Fee

Page 4 of 4

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	099-10-006-1,192	N/A	Aqueous	N/A	12/02/00	001202AW

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	10	1	ug/L	1,1-Dichloropropene	ND	1.0	1	ug/L		
Benzene	ND	0.50	1	ug/L	c-1,3-Dichloropropene	ND	0.50	1	ug/L		
Bromobenzene	ND	1.0	1	ug/L	t-1,3-Dichloropropene	ND	0.50	1	ug/L		
Bromochloromethane	ND	1.0	1	ug/L	Ethylbenzene	ND	1.0	1	ug/L		
Bromodichloromethane	ND	1.0	1	ug/L	2-Hexanone	ND	10	1	ug/L		
Bromoform	ND	1.0	1	ug/L	Isopropylbenzene	ND	1.0	1	ug/L		
Bromomethane	ND	1.0	1	ug/L	p-Isopropyltoluene	ND	1.0	1	ug/L		
2-Butanone	ND	10	1	ug/L	Methylene Chloride	ND	10	1	ug/L		
n-Butylbenzene	ND	1.0	1	ug/L	4-Methyl-2-Pentanone	ND	10	1	ug/L		
sec-Butylbenzene	ND	1.0	1	ug/L	Naphthalene	ND	10	1	ug/L		
tert-Butylbenzene	ND	1.0	1	ug/L	n-Propylbenzene	ND	1.0	1	ug/L		
Carbon Disulfide	ND	10	1	ug/L	Styrene	ND	1.0	1	ug/L		
Carbon Tetrachloride	ND	0.50	1	ug/L	1,1,1,2-Tetrachloroethane	ND	1.0	1	ug/L		
Chlorobenzene	ND	1.0	1	ug/L	1,1,2,2-Tetrachloroethane	ND	1.0	1	ug/L		
Chloroethane	ND	1.0	1	ug/L	Tetrachloroethene	ND	1.0	1	ug/L		
Chloroform	ND	1.0	1	ug/L	Toluene	ND	1.0	1	ug/L		
Chloromethane	ND	1.0	1	ug/L	1,2,3-Trichlorobenzene	ND	1.0	1	ug/L		
2-Chlorotoluene	ND	1.0	1	ug/L	1,2,4-Trichlorobenzene	ND	1.0	1	ug/L		
4-Chlorotoluene	ND	1.0	1	ug/L	1,1,1-Trichloroethane	ND	1.0	1	ug/L		
Dibromochloromethane	ND	1.0	1	ug/L	1,1,2-Trichloroethane	ND	1.0	1	ug/L		
1,2-Dibromo-3-Chloropropane	ND	5.0	1	ug/L	Trichloroethene	ND	1.0	1	ug/L		
1,2-Dibromoethane	ND	1.0	1	ug/L	Trichlorofluoromethane	ND	10	1	ug/L		
Dibromomethane	ND	1.0	1	ug/L	1,2,3-Trichloropropane	ND	1.0	1	ug/L		
1,2-Dichlorobenzene	ND	1.0	1	ug/L	1,2,4-Trimethylbenzene	ND	1.0	1	ug/L		
1,3-Dichlorobenzene	ND	1.0	1	ug/L	1,3,5-Trimethylbenzene	ND	1.0	1	ug/L		
1,4-Dichlorobenzene	ND	1.0	1	ug/L	Vinyl Acetate	ND	10	1	ug/L		
Dichlorodifluoromethane	ND	1.0	1	ug/L	Vinyl Chloride	ND	0.50	1	ug/L		
1,1-Dichloroethane	ND	1.0	1	ug/L	p/m-Xylene	ND	1.0	1	ug/L		
1,2-Dichloroethane	ND	0.50	1	ug/L	o-Xylene	ND	1.0	1	ug/L		
1,1-Dichloroethene	ND	1.0	1	ug/L	Methyl-tert-Butyl Ether	ND	1.0	1	ug/L		
c-1,2-Dichloroethene	ND	1.0	1	ug/L	Tert-Butyl alcohol (TBA)	ND	50	1	ug/L		
t-1,2-Dichloroethene	ND	1.0	1	ug/L	Diisopropyl ether (DIPE)	ND	2.0	1	ug/L		
1,2-Dichloropropane	ND	1.0	1	ug/L	Ethyl t-butyl ether (ETBE)	ND	2.0	1	ug/L		
1,3-Dichloropropane	ND	1.0	1	ug/L	Tert-Amyl methyl ether	ND	2.0	1	ug/L		
2,2-Dichloropropane	ND	1.0	1	ug/L							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	86-118		Toluene-d8	98	88-110	
1,4-Bromofluorobenzene	100	86-115					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

**ANALYTICAL REPORT**

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TRC-Alton Geoscience 21 Technology Drive Irvine, CA 92618	Date Sampled:	11/29/00
	Date Received:	11/29/00
	Date Extracted:	N/A
	Date Analyzed:	12/01/00
	Work Order No.:	00-11-1170
Attn: John Trompeter RE: Jalk Fee	Method:	EPA 8015B
	Page 1 of 1	

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All concentrations are reported in mg/L (ppm).

<u>Analyte</u>	<u>Concentration</u>	<u>Reporting Limit</u>
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**Sample Number: MW-5**

Methanol	ND	0.10
Ethanol	ND	0.10

**Sample Number: MW-4**

Methanol	ND	0.10
Ethanol	ND	0.10

**Sample Number: MW-3**

Methanol	ND	0.10
Ethanol	ND	0.10

**Sample Number: Method Blank**

Methanol	ND	0.10
Ethanol	ND	0.10

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

**Quality Control - Spike/Spike Duplicate**

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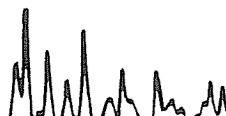
TRC-Alton Geoscience                      Date Received: 11/29/00  
21 Technology Drive                      Work Order No: 00-11-1170  
Irvine, CA 92618                      Preparation: EPA 5030B  
    Method: EPA 8015M

Project: Jalk Fee

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Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
00-11-1034-5	Aqueous	GC 18	N/A	11/30/00	00112903ms

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH for Gasoline	114	114	68-122	0	0-14	



**Quality Control - Spike/Spike Duplicate**

TRC-Alton Geoscience  
21 Technology Drive  
Irvine, CA 92618

Date Received: 11/29/00  
Work Order No: 00-11-1170  
Preparation: EPA 5030B  
Method: EPA 8015M

Project: Jalk Fee

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
00-11-1180-8	Aqueous	GC 24	N/A	11/30/00	00113001ms

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH for Gasoline	96	95	68-122	1	0-14	

**Quality Control - LCS/LCS Duplicate**

TRC-Alton Geoscience  
21 Technology Drive  
Irvine, CA 92618

Date Received: 11/29/00  
Work Order No: 00-11-1170  
Preparation: EPA 5030B  
Method: EPA 8015M

Project: Jalk Fee

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
098-03-006-799	Aqueous	GC 18	N/A	11/30/00	00112902sa

Parameter	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH for Gasoline	103	100	79-115	3	0-19	

**Quality Control - LCS/LCS Duplicate**

TRC-Alton Geoscience  
21 Technology Drive  
Irvine, CA 92618

Date Received: 11/29/00  
Work Order No: 00-11-1170  
Preparation: EPA 5030B  
Method: EPA 8015M

Project: Jalk Fee

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
098-03-006-802	Aqueous	GC 24	N/A	11/30/00	00113001sa

Parameter	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH for Gasoline	104	104	79-115	0	0-19	

**Quality Control - Spike/Spike Duplicate**

TRC-Alton Geoscience                      Date Received:                      11/29/00  
 21 Technology Drive                        Work Order No:                    00-11-1170  
 Irvine, CA 92618                         Preparation:                        N/A  
    Method:                            EPA 8260B

Project: Jalk Fee

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-4	Aqueous	GC/MS R	N/A	12/03/00	0011117002

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	97	72-127	4	0-25	
Carbon Tetrachloride	110	110	70-130	0	0-25	
Chlorobenzene	101	99	72-131	2	0-25	
1,2-Dichlorobenzene	98	99	70-130	2	0-25	
1,1-Dichloroethene	107	104	69-127	2	0-25	
Toluene	99	98	75-124	2	0-25	
Trichloroethene	105	102	60-137	2	0-25	
Vinyl Chloride	96	105	70-130	9	0-25	
Methyl-tert-Butyl Ether	94	96	80-120	2	0-25	
Tert-Butyl alcohol (TBA)	80	86	60-140	7	0-25	
Diisopropyl ether (DIPE)	97	98	60-140	1	0-25	
Ethyl t-butyl ether (ETBE)	98	98	60-140	0	0-25	
Tert-Amyl methyl ether	96	97	60-140	1	0-25	



**Quality Control - LCS/LCS Duplicate**

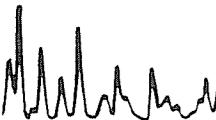
TRC-Alton Geoscience  
 21 Technology Drive  
 Irvine, CA 92618

Date Received: 11/29/00  
 Work Order No: 00-11-1170  
 Preparation: N/A  
 Method: EPA 8260B

Project: Jalk Fee

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-1,192	Aqueous	GC/MS R	N/A	12/02/00	001202AW

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	92	100	72-127	8	0-25	
Carbon Tetrachloride	99	106	70-130	7	0-25	
Chlorobenzene	93	100	72-131	8	0-25	
1,2-Dichlorobenzene	91	100	70-130	10	0-25	
1,1-Dichloroethene	95	100	69-127	5	0-25	
Toluene	91	99	75-124	9	0-25	
Trichloroethene	94	102	60-137	8	0-25	
Vinyl Chloride	93	100	79-118	7	0-25	
Methyl-tert-Butyl Ether	92	97	80-120	5	0-25	
Tert-Butyl alcohol (TBA)	89	88	60-140	1	0-25	
Diisopropyl ether (DIPE)	94	101	60-140	7	0-25	
Ethyl t-butyl ether (ETBE)	94	99	60-140	5	0-25	
Tert-Amyl methyl ether	92	100	60-140	8	0-25	



**QUALITY ASSURANCE SUMMARY**

Method EPA 8015B

TRC-Alton Geoscience  
Page 1 of 1

Work Order No.: 00-11-1170  
Date Analyzed: 12/01/00

**Matrix Spike/Matrix Spike Duplicate**

Sample Spiked: MW-5

<u>Analyte</u>	<u>MS%REC</u>	<u>MSD%REC</u>	<u>Control Limits</u>	<u>%RPD</u>	<u>Control Limits</u>
Methanol	85	85	50 - 150	0	0 - 25
Ethanol	89	102	50 - 150	14	0 - 25

**Laboratory Control Sample**

<u>Analyte</u>	<u>Conc. Added</u>	<u>Conc. Rec.</u>	<u>%REC</u>	<u>Control Limits</u>
Methanol	5.00	4.38	88	50 - 150
Ethanol	5.00	4.37	87	50 - 150

**Surrogate Recoveries (in %)**

<u>Sample Number</u>	<u>S1</u>
MW-5	90
MW-4	92
MW-3	88
Method Blank	95

<u>Surrogate Compound</u>	<u>%REC</u>	<u>Acceptable Limits</u>
S1 > Hexafluoro-2-propanol	70 - 130	



## GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-11-1170

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<u>Qualifier</u>	<u>Definition</u>
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- |    |   |
|----|---|
| D  | The sample data was reported from a diluted analysis. |
| ND | Not detected at indicated reporting limit.            |

# SAMPLE RECEIPT FORM

Work Order Number: 00-11-1170 Date Received: 11/29/00  
Delivery Container Type: Cooler Date Opened: 11/29/00  
Client Project ID: Jalk Fee Opened By: JP

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## Section A: Pass/Fail

### Criteria

### Comments

- |   |     |
|---|-----|
| 1. Chain of custody document(s) received with samples.            | Yes |
| 2. Sample container label(s) consistent with custody papers.      | Yes |
| 3. Sample container label(s) complete (ID, date, time, taken by). | Yes |
| 4. Sample container(s) intact and in good condition.              | Yes |
| 5. If applicable, proper preservation noted on sample label(s).   | Yes |
| 6. Sufficient sample volume received for analyses requested.      | Yes |
| 7. Correct containers used for analyses requested.                | Yes |
| 8. If applicable, VOA vials free of headspace.                    | Yes |

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## Section B: Additional Observations

- |   |        |
|---|--------|
| 1. Describe packing materials used in container.  | NA     |
| 2. Was sample container('s) sealed with custody   | No     |
| 3. Were all samples sealed in separate plastic bags?  | No     |
| 4. Measured temperature inside delivery container when opened.  | 4.0 °C |
| 5. If delivery container shipped by third-party carrier,<br>did container come with shipping slip, airbill, etc.? | No     |
| If YES, attach copy of shipping slip/airbill to the back of this  |        |
| 6. Do tedlar bags show condensation? Describe below if yes.   | No     |
| 7. Are 25.1 condensate traps immersed in dry ice?   | NA     |
| 8. Are 25.1 sampling trains intact?   | NA     |
| 9. Are 25.3 condensate vials still attached to the sampling train?  | NA     |
| 10. Are 25.3 condensate vials on wet ice?   | NA     |

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## Section C: Additional Comments

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## CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.

7440 LINCOLN WAY

GARDEN GROVE, CA 92841-1432

TEL: (714) 895-5494 • FAX: (714) 894-7501

LABORATORY CLIENT: TEC-ACTOBills to Action Geo.WBS-56  
CLIENT OF CUSTODY RECORDDate 11-12-00Page 1 of 1

ADDRESS <u>21 Technology Dr</u>	STATE <u>CA</u>	ZIP <u>92841</u>
CITY <u>Orange</u>	FAX: <u>(714) 755-0111</u>	E-MAIL: <u>TEC-ACTO@AOL.COM</u>
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input checked="" type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> 10 DAYS		
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL <u>/ /</u> .		
SPECIAL INSTRUCTIONS <u>4 VOCs w/ HCl</u>		

PROJECT CONTACT: <u>John Trampeter</u>		CLIENT PROJECT NAME / NUMBER: <u>0139770</u>	P.O. NO.: <u>/</u>
PROJECT CONTACT: <u>John Trampeter</u>		LAB USE ONLY <input checked="" type="checkbox"/> <u>1 - 1 1 1 7 8</u>	
SAMPLER(S): (SIGNATURE) <u>JK Fee</u>		COOLER RECEIPT TEMP = <u>4.0 °C</u>	
REQUESTED ANALYSES			
<input type="checkbox"/> TPH (6) or TPH (D)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> HALOCARBONS (8021B)	<input type="checkbox"/> SVOCs (8270C)
<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PEST (8081A)	<input type="checkbox"/> VOCs (5035 / 8260B) Encore	<input type="checkbox"/> SVOCs (8270C)
<input type="checkbox"/> EOB / DBCP (504.1) or (8011)	<input type="checkbox"/> CAC, T22 METALS (6010B)	<input type="checkbox"/> PNAs (8310)	<input type="checkbox"/> VOCs (TO-14A) or (TO-15)
<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1)	<input type="checkbox"/> VOCs (TO-14A) or (TO-15)	<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1)	<input type="checkbox"/> FIXED GASES (25.1) or (D1946)
<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PEST (8081A)	<input type="checkbox"/> VOCs (8310)	<input type="checkbox"/> CO <sub>2</sub> / SCS (8260)
<input type="checkbox"/> SVOCs (8270C)	<input type="checkbox"/> VOCs (5035 / 8260B)	<input type="checkbox"/> CAC, T22 METALS (6010B)	<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1) or (D1946)
<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> EOB / DBCP (504.1) or (8011)	<input type="checkbox"/> PCBs (8082)
<input type="checkbox"/> HALOCARBONS (8021B)	<input type="checkbox"/> SVOCs (8270C)	<input type="checkbox"/> VOCs (TO-14A) or (TO-15)	<input type="checkbox"/> CO <sub>2</sub> / SCS (8260)
<input type="checkbox"/> TPH (D) or TPH (6)	<input type="checkbox"/> VOCs (5035 / 8260B)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1)
<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PEST (8081A)	<input type="checkbox"/> VOCs (8310)	<input type="checkbox"/> VOCs (TO-14A) or (TO-15)
<input type="checkbox"/> SVOCs (8270C)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> CAC, T22 METALS (6010B)	<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1) or (D1946)
<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> EOB / DBCP (504.1) or (8011)	<input type="checkbox"/> PCBs (8082)
<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1)	<input type="checkbox"/> PEST (8081A)	<input type="checkbox"/> VOCs (8310)	<input type="checkbox"/> CO <sub>2</sub> / SCS (8260)
<input type="checkbox"/> VOCs (8270C)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> CAC, T22 METALS (6010B)	<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1)
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<input type="checkbox"/> SVOCs (8270C)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> CAC, T22 METALS (6010B)	<input type="checkbox"/> VOCs (TO-14A) or (TO-15)
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<input type="checkbox"/> VOCs (8270C)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> CAC, T22 METALS (6010B)	<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1)
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<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1)	<input type="checkbox"/> CO <sub>2</sub> / SCS (8260)
<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PEST (8081A)	<input type="checkbox"/> VOCs (8310)	<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1) or (D1946)
<input type="checkbox"/> SVOCs (8270C)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> CAC, T22 METALS (6010B)	<input type="checkbox"/> VOCs (TO-14A) or (TO-15)
<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> EOB / DBCP (504.1) or (8011)	<input type="checkbox"/> PCBs (8082)
<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1)	<input type="checkbox"/> PEST (8081A)	<input type="checkbox"/> VOCs (8310)	<input type="checkbox"/> CO <sub>2</sub> / SCS (8260)
<input type="checkbox"/> VOCs (8270C)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> CAC, T22 METALS (6010B)	<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1)
<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1)	<input type="checkbox"/> VOCs (8310)	<input type="checkbox"/> EOB / DBCP (504.1) or (8011)	<input type="checkbox"/> VOCs (TO-14A) or (TO-15)
<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1)	<input type="checkbox"/> CO <sub>2</sub> / SCS (8260)
<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PEST (8081A)	<input type="checkbox"/> VOCs (8310)	<input type="checkbox"/> CH <sub>4</sub> / TGMMO (25.1) or (D1946)
<input type="checkbox"/> SVOCs (8270C)	<input type="checkbox"/> VOCs (8260B)	<input type="checkbox"/>	

**Receipt of Manifest  
is Pending**

(January 15, 2001)